

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P392885

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L92765-W2A-1-U (4000K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

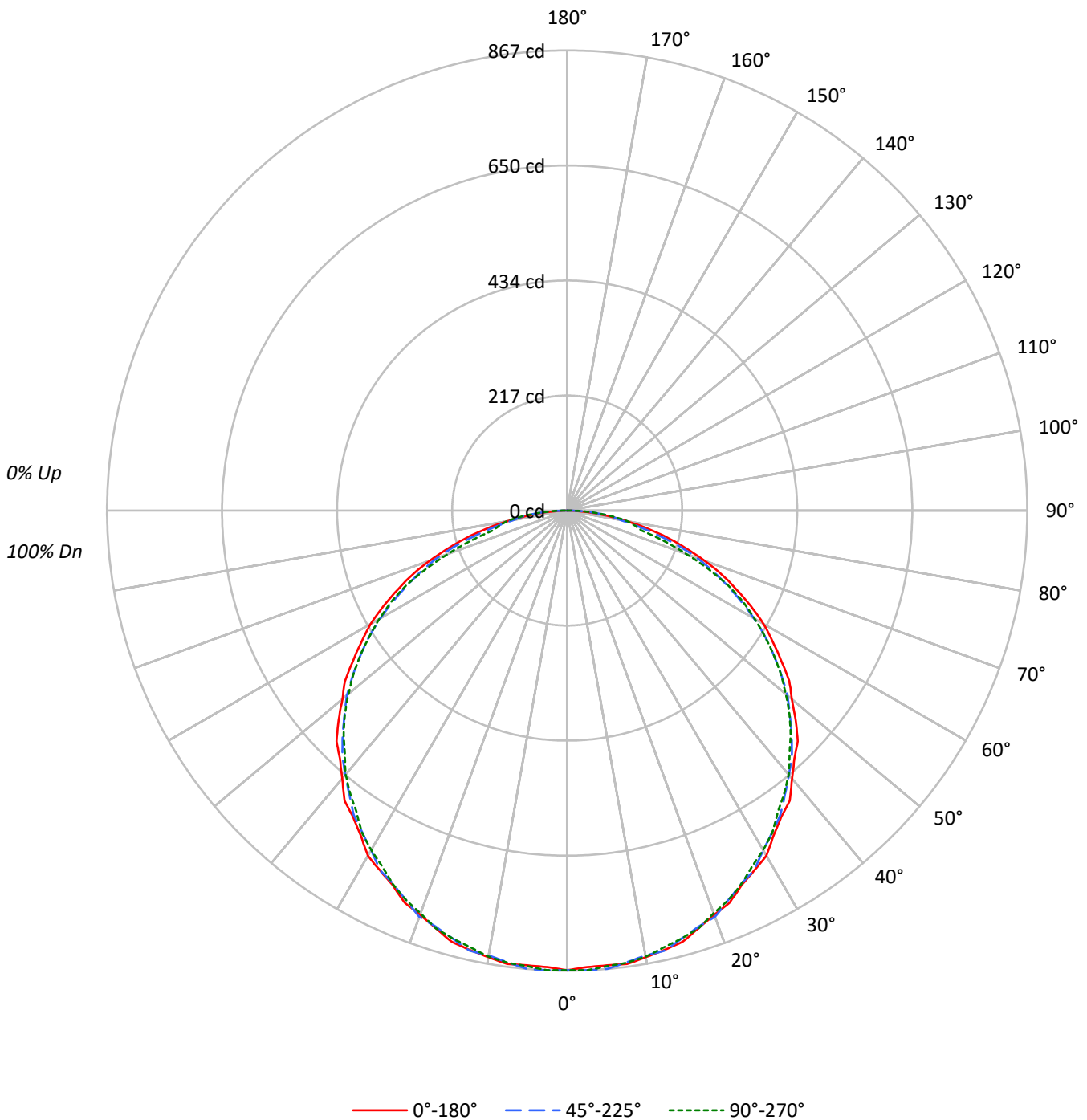
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4660	4660	4660
5°	4647	4682	4656
10°	4669	4651	4664
15°	4686	4650	4650
20°	4642	4666	4623
25°	4621	4607	4612
30°	4667	4589	4589
35°	4624	4602	4548
40°	4631	4567	4561
45°	4677	4551	4532
50°	4626	4536	4501
55°	4617	4462	4462
60°	4603	4380	4398
65°	4486	4223	4276
70°	4334	4099	3761
75°	4042	3645	3009
80°	3512	3152	3564
85°	2760	3421	3470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	235.9	9.1
20°-30°	359.0	13.9
30°-40°	437.5	16.9
40°-50°	463.2	17.9
50°-60°	429.0	16.6
60°-70°	333.8	12.9
70°-80°	186.8	7.2
80°-90°	57.9	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	677.0	26.2
0°-40°	1114.6	43.1
0°-60°	2006.8	77.6
0°-90°	2585.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	860	866	867	868	862	82
15°	841	836	834	833	834	236
25°	778	777	776	775	777	360
35°	704	704	700	696	692	442
45°	614	610	598	595	596	471
55°	492	488	476	473	476	440
65°	352	344	332	332	336	349
75°	194	188	175	157	145	204
85°	45	46	55	55	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.9	865.9	865.9	865.9	865.9
2.5°	860.9	864.3	866.7	866.7	866.7
5°	860.1	865.9	866.7	867.6	861.8
7.5°	861.8	857.6	858.5	856.8	859.3
10°	854.3	850.2	851.0	852.7	853.5
12.5°	847.7	848.5	849.4	848.5	842.8
15°	841.1	836.1	834.5	832.8	834.5
17.5°	824.6	821.2	822.1	822.9	824.6
20°	810.5	814.6	814.6	813.0	807.2
22.5°	799.7	798.9	794.0	791.5	794.0
25°	778.2	776.6	775.8	774.9	776.6
27.5°	764.2	764.2	763.4	760.0	755.1
30°	750.9	746.8	738.5	736.9	738.5
32.5°	724.5	721.2	718.7	715.4	719.5
35°	703.8	703.8	700.5	696.4	692.2
37.5°	688.9	684.0	674.0	670.7	671.6
40°	659.1	655.8	650.1	645.9	649.2
42.5°	633.5	632.7	626.9	621.9	620.3
45°	614.5	609.5	597.9	594.6	595.5
47.5°	583.9	578.9	569.0	565.7	568.2
50°	552.5	549.2	541.7	536.7	537.6
52.5°	527.6	521.0	508.6	507.0	507.8
55°	492.1	488.0	475.5	473.1	475.5
57.5°	459.0	454.0	442.5	437.5	441.6
60°	427.6	420.1	406.9	405.2	408.6
62.5°	390.4	384.6	368.9	369.7	374.6
65°	352.3	344.0	331.6	332.5	335.8
67.5°	315.9	306.8	296.9	291.9	287.8
70°	275.4	268.8	260.5	244.8	239.0
72.5°	233.2	227.4	220.0	196.0	191.9
75°	194.4	187.7	175.3	157.1	144.7
77.5°	153.0	149.7	134.8	126.5	130.7
80°	113.3	113.3	101.7	110.8	115.0
82.5°	76.1	75.3	83.5	87.7	86.8
85°	44.7	46.3	55.4	55.4	56.2
87.5°	19.0	21.5	25.6	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)